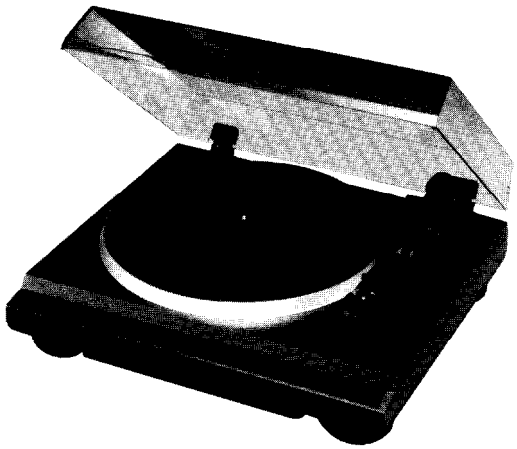
No. 3417

ONKYO SERVICE MANUAL

AUTOMATIC RETURN TURNTABLE

MODEL CP-101A



UDN, UDC, UD	120V AC, 60Hz
UPV, UP	230V AC, 50Hz
UW	120 or 220V AC, 50/60Hz
UQA	240V AC, 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Type:	2-speed automatic-return turntable with cueing lever
Turntable Platter:	31 cm (12-1/4") Aluminum diecast
Motor:	DC servo motor
Speeds:	33-1/3 rpm, 45 rpm
Wow & Flutter:	0.045% WRMS
Signal-to-Noise Ratio:	66 dB (IEC-Y, DIN-B)
Tonearm:	Static balanced straight-type pipe arm
Effective Arm Length:	210mm (8-5/16")
Overhang:	13mm (1/2")
Maximum Tracking Error:	+4.5 degrees, –1 degree
Cartridge:	
Type:	Moving magnet OC-74M
Frequency Response:	20Hz – 20,000Hz
Recommended Load Impedance:	47 kohms
Recommended Tracking Force:	2 grams
Output VOltage:	2.5mV
Replacement Stylus:	DN-74ST
Power Supply Rating:	AC120V, 50/60Hz
Dimensions (W×H×D)	418mm×132mm×374mm 16-1/2"×5-1/6"×14-3/4"
Weight:	3,7kg (8,2lbs.)

Optional Recommended Headshell: SH-21F

In the interest of further product improvements, specifications are subject to change without notice.

ONKYO AUDIO COMPONENTS

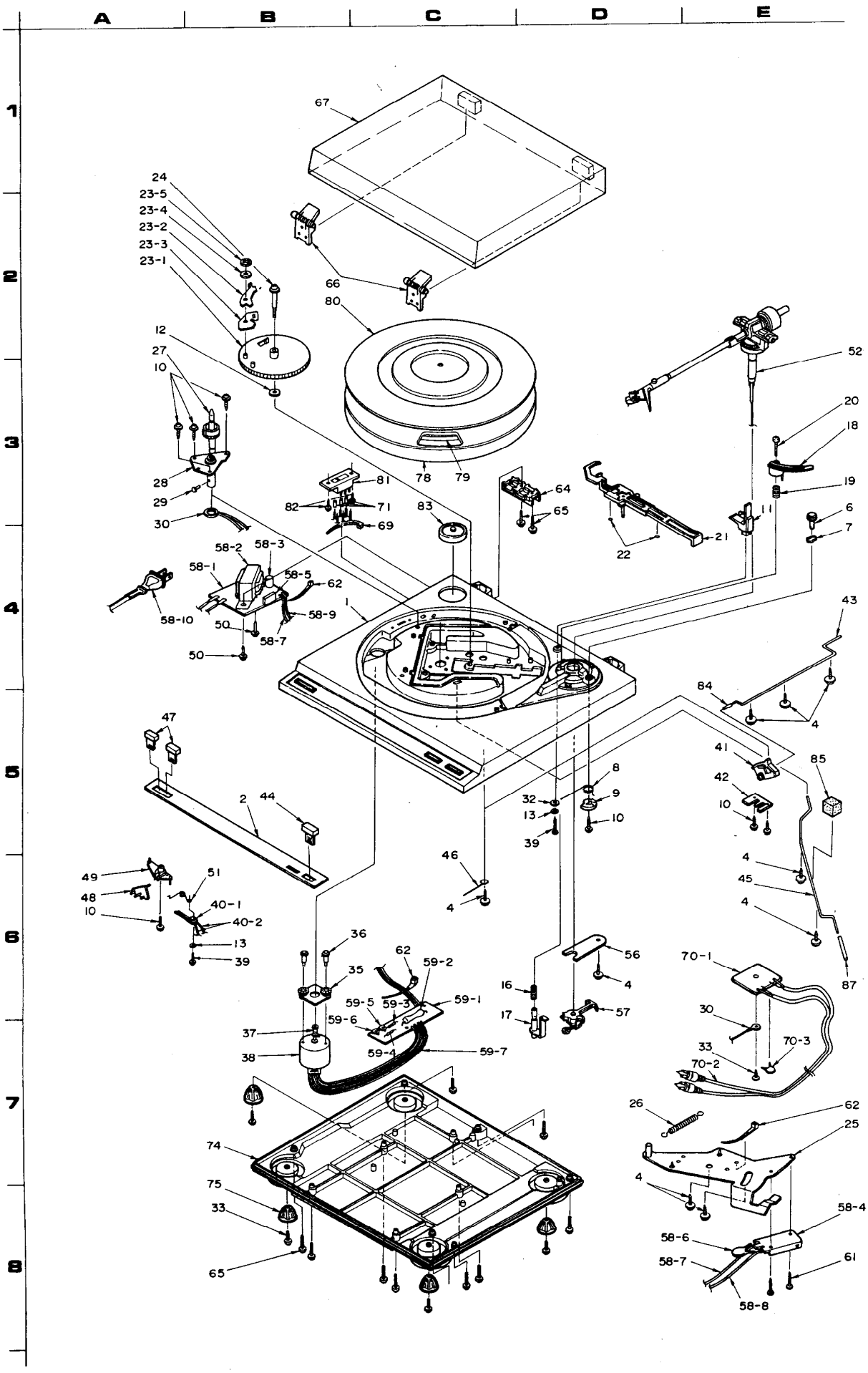
PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
1	28110634	CABINET (BLACK)
	28110635	CABINET (SILVER)
2	27262550	PLATE
4	801295	TAPPING SCREW 3STW+8B
6	24501571	KNOB AS (I.F.C.)
7	24506243	WAVE WASHER
8	24503131	SPRING (I.F.C.)
9	24504271	I.F.C. CAM
10	831430088	TAP-TIGHT SCREW 3TTW+8BBC
11	24509294	ARM REST AS
12	87613008	WASHER W3×8FN
13	871430	SPRING WASHER SW-3 BC
16	24503166	SPRING (EV)
17	24506660-1	SHAFT (EL)
18	24504321	ELEVATION PLATE
19	24503144	SPRING
20	24505211	COSMETIC SCREW CT2.6+14
21	24506661	ACTUATING ARM
22	270555	STEEL BALL
23	24506662	MAIN GEAR AS 2
23-1	24503032	MAIN GEAR AS
23-2	24506663	CLUTCH
23-3	24506664	CLUTCH GUIDE
23-4	87613008	WASHER W3×8F
23-5	891030	STOP RING CS-3
24	24506537	SCREW
25	24506220	ACTUATING PLATE AS
26	24503146	SPRING (OPE)
27	24502163	PLATTER SHAFT
28	24502164	PLATTER SHAFT BEARING
29	24502165	PIN
30	24505179-1	LEAD AS (GND)
32	87613006	WASHER FW3.2×6×5
33	831130108	TAP-TIGHT SCREW 3TTW+10B
35	24502247	MOTOR AS
35	24506786	CUSHION (MOTOR)
36	24506788	SCREW M2.6×6×8
37	24502191	MOTOR PULLEY
38	24502242	MOTOR
39	834430128	TAP-TIGHT SCREW 3TTS+12BB
40	24504427	LEAF SWITCH AS
40-1	24504428	LEAF SWITCH
41	24603306	CUEING LEVER
42	24504402	HOLDER (LEVER)
43	24504416	QUE ROD
44	28322097	BUTTON (REJ)
45	24503135	SPRING (REJ)
46	24503136	SPRING (BUTTON)
47	28322098	BUTTON (SP)
48	24504316	SPEED SELECTOR ARM
49	24504417	CAM
50	831130128	TAP-TIGHT SCREW 3TTW+12B
51	24503113	SPRING
52	24501528	PU ARM
52-1	24501321A	SCREW
52-2	24501471	COUNTER WEIGHT
52-3	24501354	HEAD SHELL
52-4	242983	OC-74M (G/U)
52-5	242984	DN-74ST (G/U)
56	24506787	PLATE (PU)
57	24509301	ACTUATING ARM AS
⚠ 58	24502244-5	P.C.B. AS (POWER SUPPLY) (D)
	24502244-6	P.C.B. AS (POWER SUPPLY) (G)
	24502244-2A	P.C.B. AS (POWER SUPPLY) (U)
	24502244-4	P.C.B. AS (POWER SUPPLY) (Q)
⚠ 58-2	2300176	NPT-948D (D)
	2300793	NPT-948P (G)
	2300208	NPT-948BP (U)
	2300207	NPT-948Q
58-3	354754719	470μF 25V
⚠ 58-4	24503023	MICRO SWITCH
⚠ 58-5	22380011	SQVB10
58-6	335624730	0.047μF 50V
⚠ 58-10	253142A	AC CORD (D)
	253149	AC CORD (G/U)
59	24502207-1	P.C.B. AS (MOTOR)
59-5	5215044	NO8HR5KBC
59-6	5215046	NO8HR50KBC
61	82142614	PAN-HEAD SCREW 2.6P+14FN
62	260208	SK BINDER
64	24506517	CORD HOLDER
65	831430168	TAP-TIGHT SCREW 3TTW+16B
66	28180080	HINGE (BLACK)
67	24509320	DUST COVER
70	24502245	P.C.B. AS (PHONO) (D)
	24502248	P.C.B. AS (PHONO) (G/U)
70-2	24505253	SHIELD WIRE AS (D)
	24505254	SHIELD WIRE AS (G/U)
74	27170161A	BOTTOM BOARD
75	27175043	LEG
78	24502158	PLATTER
79	242129B	DRIVER BELT
80	24509323	PLATTER MAT (D)
	24509378	PLATTER MAT (G/U)
81	25065287	SDKGA4, SWITCH (U)
82	831430108	3TTW+10B(BC), SCREW (U)
83	292093	45 RPM ADAPTER
84	75230	1.6φ TUBE
85	24509373	CUSHION
87	79003	1.7φ×28 TUBE

NOTE: [D]: Only 120V model
[G]: Only 230V model
[U]: Only World model
[Q]: Only 240V model

NOTE: THE COMPONENT IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PARTS NUMBER SPECIFIED.

EXPLODED VIEW



SERVICE PROCEDURES

Instruction resistance measurement

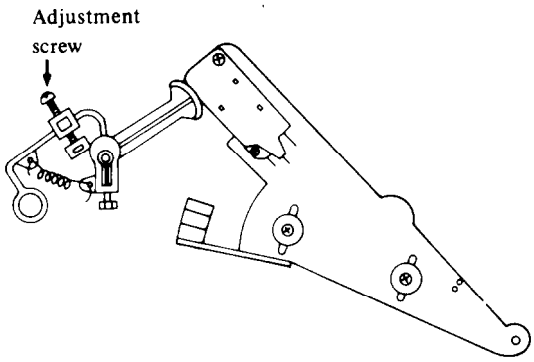
Connect the insulating-resistance tester between the plug of power supply cord and chassis.

Specifications: G/W models 500 V more than 10 MΩ

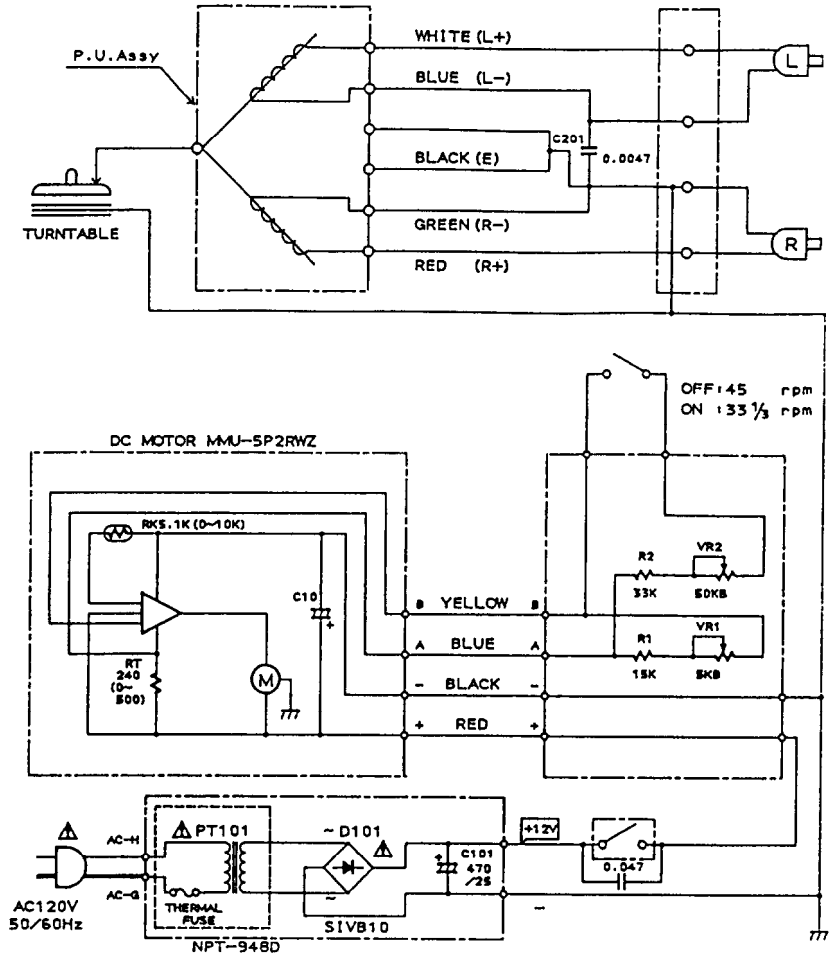
ADJUSTMENT PROCEDURES

Automatic shut-off position adjustment

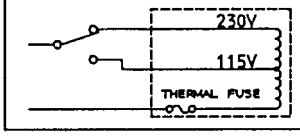
Adjust the shut-off position with the fine adjustment screw. After the adjustment, apply lock-tite to the screw. To adjust the shut-off position for earlier, turn the screw counter-clockwise. To adjust the shut-off position for later, turn the screw clockwise.



CONNECTION DIAGRAM



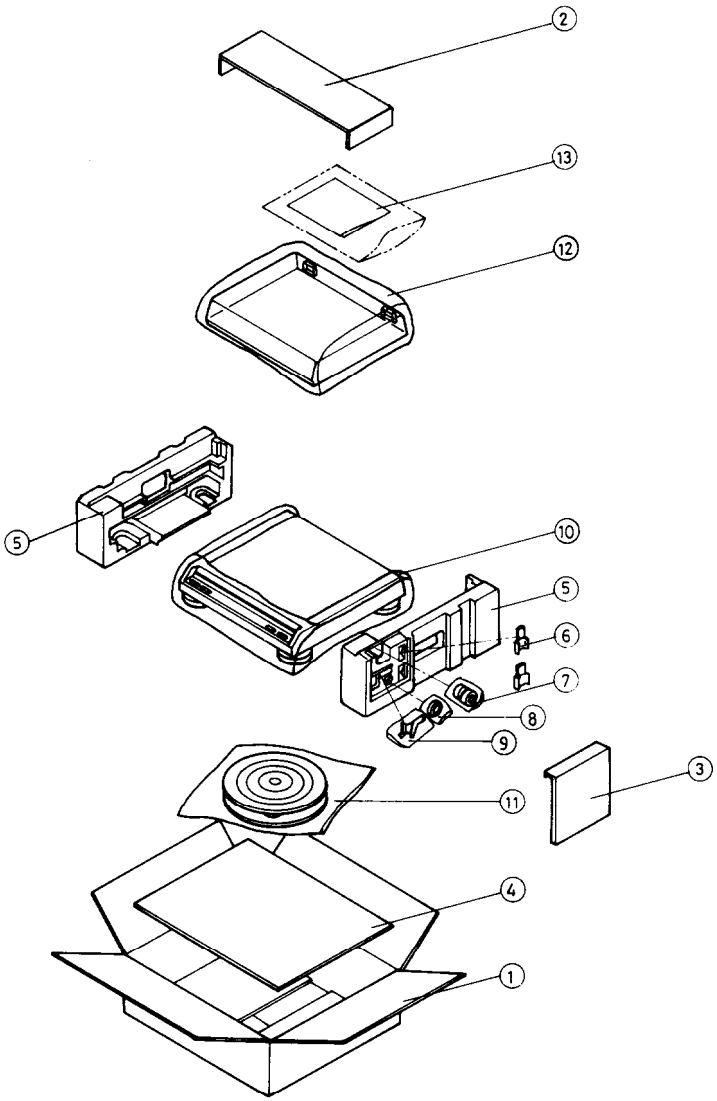
POWER	PT101
AC120V 50/60Hz	NPT948D 033513
AC230V 60Hz	NPT948P 033660
AC240V 60Hz	NPT948Q 033541
AC110/120 /220/240V 50/60Hz	NPT948BP 033542



NOTES

- ALL RESISTORS ARE IN OHMS 1/4WATT UNLESS OTHERWISE NOTED.
- ALL CAPASITORS ARE IN μF 50WV UNLESS OTHERWISE NOTED.
- ELECTOROLYTIC CAPASITORS (⊣⊢) ARE IN μF/WV.
- VOLTAGE (MEASURED WITH V.T.V.M) (NO INPUT SIGNAL).
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

PACKING VIEW



REF. NO.	PART NO.	DESCRIPTION
1	29052397	Master carton box (Black model)
	29052398	Master carton box (Silver model)
2	24509374	Pad sheet (UP)
3	24509372	Pad sheet
4	24509370	Pad sheet (Bottom)
5	29090822	Pad(L)+Pad(R)
6	28180080	Hinge
7	24501471	Main weight
8	292049A	45 rpm adapter
9	24501330	Cartridge attachment parts ass'y
	24501354	Headshell
	29100002	70×120mm, Poly-vinyl bag for 7, 8 and 9
10	29095012-1	500×800, Protection sheet
11	24509323	T.T Mat (D)
	24509378	T.T Mat (G/U)
	24502158	Turntable platter
	29100046	370×470, Poly bag
12	24509320	Dust cover
	29100050	Protection sheet
13	Accessary bag complete	

120V model

29341723A	Instruction manual
24509197	Overhang gauge
29365019A	Warranty card (Only USA model)
29358002J	Sarvice station list (Only USA model)
29100006A	250×350 Poly bag

230V model

29341724A	Instruction manual
29365020E	Warranty card (Only West Germany model)
29100094	Poly bag
2910006A	250×350 Poly bag

Universal model

29341724A	Instruction manual
25055040	CVK-2, Conversion plug
29100006A	250×350 Poly bag

ONKYO CORPORATION

International Division: Onarimon Yusen Bldg., 23-5, Nishi-Shimbashi 3-chome, Minato-ku,
TOKYO 105, JAPAN Tel: 03-3432-6987 Fax: 03-3436-6979
ONKYO U.S.A CORPORATION
200 Williams Drive, Ramsey, N.J. 07446, U.S.A.
Tel: 201-825-7950 Fax: 201-825-8150
ONKYO Europe GmbH
Hellersbergstrasse 4, W-4040 Neuss GERMANY
Tel: 02101 12 00 75 Fax: 02101 10 33 06 TLX: 85 17 916 ONDU D
ONKYO DEUTSCHLAND GMBH ELECTRONICS
Industriestrasse 20, W-8034 Germering, GERMANY
Tel: 089 84 93 20 Fax: 089 84 93 226 TLX: 05-21726 ONKY D
ONKYO FRANCE S.A.R.L.
Immeuble Le DIAMANT, Domaine Technologique De Saclay, 4 rue Rene Razel,
91892 SACLAY, FRANCE Tel: (1)69 41 35 10 Fax: (1)69 41 35 84

A 202 Printed in Japan